UNITED STATES OF AMERICA . NUCLEAR REGULATORY COMMISSION

BEFORE THE COMMISSION

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Docket 50-289

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In the Matter of

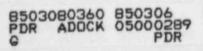
METROPOLITAN EDISON COMPANY, et al.

(Three Mile Island Nuclear Generating Station, Unit 1)

MOTIONS TO ADDRESS FALSE STATEMENTS IN RESPONSES TO AAMODT MOTION OF JANUARY 15, 1985

Table of Contents

		page
1.0	Abstract	3
2.0	Background	3
3.0	Reply to Licensee and Staff Responses insofar as they are dishonest	5
3.1	There is no way that the Licensee and the Staff could believe that Gerusky "corrected" his May 3, 1979 testim in an October 1, 1980 interview	nony 6
3.2	The Licensee and Staff conveniently overlooked the testimony of other BRP employees in the May 1979 deposition	9
3.3	The testimony of two TMI managers who confirm the BRP testimony was ignored in the Licensee Response and dismissed by the <u>Staff</u>	10
3.4	The fact that the NRC investigations do not reflect the gamble conclusions is of no significance.	12
3.5	The fact that Gamble did not testify concerning the content of his reports is no reflection on the authenticity of the reports.	13



920

TABLE OF CONTENTS, contd.

ģ

3.6	The Staff is wrong, and deliberately so, in excusing its	
	deletions of the Aamodt Motion as clerical errors and	
	attributing this explanation to the Aamodts.	13
	The property and deliberated any then it property	
3.7	The Staff is wrong, and deliberately so, when it asserts	
	that health effects were not an issue in the TMI	15
	Restart Proceeding	15
3.8	The Staff is wrong, and deliberately so, when it asserts	
	that health effects do not bear on any issue in the	
	Restart Proceeding.	15
3.9	The Staff is wrong, and deliberately so, when it refers	
	to the increased cancer mortality in three IMI areas	
	as alleged	17
4.0	Discussion	18
5.0	Motions	19
5.0	HOLIDITS	
6.0	Conclusions	20
0.0		

Exhibit A - Deposition of Thomas Gerusky, William Dornsife and Margaret Reilly, May 3, 1979

8

Exhibit B - Report Provided by David Gamble as part of his testimony in the Remanded hearing

Exhibit C - Memorandum, December 1, 1981, Fortuna and Gamble advising Cummings of DOJ investigation of NUREG-0760

Exhibit D - Correspondence between Aamodt and Wagner concerning false statements in Staff response

Exhibit E - Letters from Drs. Cochran, Molholt, Berger. Cobb Mayor Reed, and Senator Spector supporting Aamodt health motion

1.0 Abstract

The Aamodts find that the Licensee and Staff responses to their January 15 motion are totally dishonest. They believe that the nature and extent of these deceptions should be fully understood prior to the Commission's decision on the motions. They are motioning for the opportunity to reply to the Licensee and Staff responses and providing the reply at the same time.

The Licensee and Staff have asked the Commission to deput the Aamodt Motion for a reopening of a hearing to consider information concerning serious health problems in residents of the TMI area.

These parties were particularly critical of information provided by the Aamodts that a former NRC investigator concluded that TMI personnel had lied concerning offsite surveillance between 7:30 and 8:00 a.m. on March 28, 1979. After carefully considering all evidence provided by the Licensee and Staff, the Aamodts found that these parties' objections were neither rational nor sincere.

The Aamouts are asking the Commission to censure the Staff for its deliberately dishonest response and lack of appropriate concern about health matters. They are also asking for an internal investigation of Staff policy and actions with regard to the Aamout motions.

2.0 Background

On June 21, 1984, the Aamodts raised the matter of an excess cancer incidence and mortality in three elevated areas west of TMI where citizens conducted a door-to-door survey. Evidence of radiation-induced anomalies in flora in these same areas were evaluated by a distinguisher Jotantist. In addition, examples of bizarre experiences of these residents on the early days of the accident were provided.

-3-

A letter from a state representative indicated that these experiences were wide-spread in the TMI area and not induced by hysteria since they occurred prior to public concern about the accident. The Aamodts motioned for a full investigation and a stay of the Commission's decision on restart until the matter of health effects was resolved. They now questioned whether GPU had been honest concerning radiation monitoring and reports during the initial days of the accident.

The Commission denied the Aamodt Motion on December 13. citing a review by the Centers for Disease Control which found the information in the Aamodt Motion "insignificant".

On January 15, 1985, the Aamodts petitioned the Commission to reconsider its decision. They provided new information: (1) a <u>verified</u> excess cancer mortality incidence, more than seven times that expected for the post-accident years (1980-1984) for the three survey areas, (2) a critique which revealed the shallowness of the Centers for Disease Control review, (3) Pennsylvania Health Department data which showed a significant drop in neonatal hypothyroidism in Lancaster County from a ten-fold greater than expected incidence in 1979, (4) a review of a key official dose-assessment study which provided an example of the inadequacies present in all studies to date, and (5) a recently-disclosed report, written in 1980 by a former NRC investigator, which concluded that TMI-2 personnel had lied concerning offsite surveillance.

Two parties filed responses: the Licensee on January 25 and the Staff on February 4.

-4-

3.0 <u>Reply to Licensee and Staff Responses in so far as they</u> are dishonest

The Aamodts are limiting their reply to those portions of the Licensee and Staff Responses which are clearly untrue.

The Licensee responded on a single issue, asserting that the Gamble reports, a basis for the Aamodt motion for a hearing, was not credible information. The Licensee provided the October 1, 1980 testimony of Thomas Gerusky (pp. 33-41) and claimed that somewhere in that transcript. Gerusky had "corrected" his May 3, 1979 testimony on which Gamble had depended for his conclusion that TMI personnel had lied concerning offsite surveillance of a plume during the early hours of the accident. Nowhere in Licensee's reponse is a specific cite to the October 1, 1980 transcript provided to show how and where Licensee believes Gerusky corrected his earlier testimony. This is a deplorable violation of NRC rules of practice in responding to a motion. however Licensee could not provide a transcript citation because nowhere in the pages of the October 1980 deposition does Gerusky correct his earlier testimony. On the contrary, Gerusky confirms his earler testimony. in so far as he is able, eighteen months after the accident, to remember and insofar as he is able to resist the suggestions of the NRC Staff that he change his testimony to bring it in line with what was alleged to be a PEMA log.

There is no way that the Licensee could truly believe that Gerusky changed his testimony or that the evidence they presented showed that he did. Licensee's response is worth no more than the five sheets of paper on which it is printed.

Licensee's response is evidence of a present improper attitude.

-5-

The Staff responded superficially to nearly all aspects of the Aamodt motion. The responses were based on false statements, some of which were cunningly contrived. The Aamodts requested a retraction of two statements where were so blatantly factually false, that to allow them to stand unchallenged was intolerable. See Section 3.6, pp. 15.

The Staff reiterated Licensee's argument concerning the Gerusky testimony, and as with the Licensee, provided no transcript citations or quotations. See pp. 3-6.

3.1 <u>There is no way that the Licensee and the Staff could believe that</u> Gerusky "corrected" his May 3, 1979 testimony in an October 1, 1980 interview.

On May 3, 1979. Gerusky testified as follows:

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In the meantime, I requested them to try to get their teams somehow to Goldsboro, and they said that the State Police helicopter was there and that they would get one of their teams up in the air and over Goldsboro. We stayed on the phone with them. They found no radiation levels onsite or in Goldsboro that would indicate any kind of a leak. So threefore, we then notified the Civil Defense to hold tight. This was all before 8:00... On October 1, 1980, in the second of two interviews which Gerusky described as "briefings", Gerusky haltingly responded concerning the time TMI personnel first claimed offsite surveillance:

No, it was after 7:30. Its a feeling and I really haven't tried to verify it one way or another to determine what these times were in the past year and a half, because I didn't think it was important, but I have a feeling it happened sometime between 7:30 and 8:00. (pp. 59)

I don't know. I think in reconstructing it, or at least the telephone...the PEMA telephone duty log indicated it may have been an hour, which surprised me a little bit the first time I heard that, six months ago in another one of these briefings. (pp. 41)

Did Gerusky "correct" his testimony? Obviously, he did not. Did the Licensee and Staff believe that he corrected his testimony when they provided their responses to the Aamodt motion? No; if they did they would have quoted the specific testimony or provided a suitable reference to the transcript of the October 1, 1980 deposition. As stated above, neither party provided a single shred of evidence. However, they claimed that there was evidence somewhere within the n nine pages of the deposition transcript. Their claims are provided below. The Licensee described Gerusky's testimony in the October 1, 1980

deposition as follows: (pp. 3, 4)

The NUREG-0760 investigators then reinterviewed Mr. Gerusky and explored this inconsistency. Mr. Gerusky told the investigators that the Commonwealth had been informed of the Goldsboro dose rate prediction and of the onsite measurement before 8:00 a.m., but it was in fact an hour later that an actual measurement at Goldsboro was reported tothe Commonwealth -- a fact evidenced by the PEMA log ... not surprisingly, therefore, the portion of the NUREG-0760 draft which relied on Mr. Gerusky's first interview was not included in the final report. <u>See</u> NUREG-0760 at 31-33.

It is evident, therefore, that there is neither new nor significant information concerning the Goldsboro dose rate prediction. The statements which might have appeared at one time to provide a basis for the Aamodt's contention -- Mr. Gerusky's 1979 interview -- have long since been publicly clarified by Mr. Gerusky himself.

The Staff's description of the alleged change in Gerusky's

testimony in the October 1, 1980 interview: (pp. 4)

However. Mr. Gerusky has acknowledged that his statement, quoted in Attachment 4 to the Aamodt Motion, reflects an error in his recollection, and this error was corrected by Mr. Gerusky in an October 1, 1980 interview by the NRC Staff. where Mr. Gerusky indicated that it was about 9:00 a.m. when the Goldsboro measurement was reported to the Commonwealth. See October 1, 1980 transcript of NRC Staff Interview of Thomas Gerusky, exerpts of which are attached to Licensee's Response to Aamodt Motion dated January 25, 1985. The timing of of Licensee's report is evidenced by the Pennsylvania Emergency Management Agency log. <u>Id.</u>

These amazing interpretations of the October 1, 1980 Gerusky testimony are nothing more or less than dishonest.

If the Licensee and Staff find that the PEMA log is better evidence than Gerusky's testimony, they should say so, and provide that evidence.

3.2 <u>The Licensee and Staff conveniently overlooked the testimony</u> of other BRP employees in the May 1979 deposition

-9-

The Licensee and Staff reponses made no mention of the testimony of two other BRP employees, William Dornsife, the a nuclear engineer, and Margaret Reilly, a health physicist, who also testified, along with Gerusky, on May 3, 1979. The first 20 pages of this deposition are provided as Exhibit A.

Following Gerusky's statement ("This was all before 8:00."), which referred to TMI personnel's claim that a survey in Goldsboro had discounted high predicted releases, Dornsife said, "The next notes we have is, about 8:30..." and went on to describe his preparations for briefing Lt. Gov. Scranton and a press conference. From this several conclusions can be drawn. First, the times assigned to various events were accurate in that the BRP personnel referred to their notes made at the time. Second, There were no communications significant enough to report to the interviewers for the time period from 8:00 - 8:30 a.m. Third. Dornsife would not have been able to prepare for the activities described (briefing, press conference) without any confirmation concerning offsite surveillance. Therefore, either TMI personnel reported offsite surveillance to BRP prior to 8:00 a.m. or three BRP personnel collaborated to fabricate this assertion. 3.3 The testimony of two TMI managers who confirm the BRP tesimony was ignored in the Licensee Response and dismissed by the Staff

Gary Miller, the TMI station manager, and Richard Dubiel, health physics manager, testifed between May 21-24, 1979, before the U.S. House of Representatives. Committee on Interior and Insular Affairs, that they did dispatch a team around 7:40 a.m. on State Police helicopter and that this team was in Goldsboro within five minutes. See Exhibit B. Gamble report, pp. 7-10.

Miller stated:

>

At approximately 0730 or a little before, I had received predictions of an offsite dose of 10 R at Goldsboro. This was was based on the Reactor Building dome monitor, which was still increasing and from our past experience with source calculation, we did feel these were really this high, but as a precaution, <u>I dispatched a State Police</u> <u>helicopter with an offsite team along with an offsite</u> team in a car and separately, to the West Shore (Goldsboro).

Then Dubiel confirmed Miller's testimony:

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At some point around 7:30, Gary Miller asked me for the status of the offsite teams, and I gave him the information that we had two teams ready to go offsite both available for transportation over to the West Shore. Gary directed me to make contact with the State Police and get a State Police helicopter to get one crew over there in a more timely fashion. He was concerned about the traffic--the early morning rush hour traffic trying to go up over the bridge in Harrisburg and then back down and and that it might take an hour or more to get over there. He requested that we send one team in a helicopter and a second team in a car of driving over at a normal pace to back them up. I do not recall exactly who told me that they would get the State Police helicopter. I believe it was George Kunder, I do not remember exactly. but within minutes I had it confirmed to me that the State Police had been notified, and helicopter would be on its way

since they are stationed up at Harrisburg, Harrisburg International Airport. It would be here in a matter of minutes, and that security was notified that this helicopter was coming and would be landing somewhere in the vicinity of the north parking lot, and that they were to allow it to land and make preparations to support its landing in getting our technician on board.

...the timing may be poor but <u>I am estimating 7:40 we had a man</u> in the helicopter and sometime by two to three maybe five minutes later the man was in <u>Goldsboro</u>.

On September 20, 1979, before the NRC Special Inquiry Group,

Miller confirmed his earlier testimony:

...I remember as soon as I had the projection, which was high, for Goldsboro and knowing the west---knowing the wind was blowing to the west and knowing that it was seven or eight in the morning, that I know that I asked for a helicopter before seven thirty. ...they picked up one or two of our people and they were flown over there. And readings were back, and as I remember the readings were back before Dubiel had thought the plume had gotten there. In other words, we had gotten over there faster than the radiation would have at the wind speed, which was very slow.

Miller's and Dubiel's testimonies confirm what Gerusky. Dornsife and Reilly testified. The Staff knows this, but the Staff dismissed these testmonies, in responding to the Aamodt Motion, as the Staff had done in its report, NUREG-0760, published in 1981. The Staff characterized the certain, detailed testimony of Miller and Dubiel, provided above, as reflecting "some natural inability to reconstruct the precise series of events based solely on the recollection of individuals." <u>See</u> Staff Response, pp. 5, Footnote 5.

The Staff's conclusion is preposterous. It is even more preposterous that the BRP personnel would have suffered the same "natural inability" in precisely the same way about the same events. The Staff prefers the subsequent gross changes Miller and Dubiel made in their testimony. The Staff's participation in this change should be a matter of investigation, if it is not already. (The Staff's report, NUREG-0760 was referred to the Department of Justice for investigation in March 1981.) Suddenly, the day after Miller's testimony before SIG, provided above, Dubiel began the apparently uncomfortable change in testimony:

...I don't recall a time. I believe it was an hour later... I thought one did (concerning the helicopter landing). I have been led to believe...we requested a helicopter. Which team got there first I don't know... (Exhibit 8, pp. 10.11.)

3.4 <u>The fact that the NRC investigations do not reflect the Gamble</u> conclusions is of no significance.

The development and content of NUREG-0760 has been an open question since 1981. Investigators questioned the appropriateness of NRC Staff non-investigators conducting depositions. OIA referred the matter to the Department of Justice in March 1981. Gamble, and another investigator Roger Fortuna, wrote in a memorandum of December 1, 1981 (Exhibit C) that "the facts warranted prosecution for willful misrepresentations, omissions, or violation of NRC regulations."

The Licensee Response (pp. 2) and the Staff Response (pp.3-4) imply that the failure of NUREG-0760 to include the Gamble reports ("working drafts") is evidence that cuts against the Aamndt Motion. The Licensee and Staff know better. 3.5 The fact that Gamble did not testify concerning the content of

his reports is no reflection on the authenticity of the reports.

Licensee stated in Footnote 1 on page 2 concerning the use of the Gamble reports in the Remanded hearing:

...This exhibit to David Gamble's testimony was not admitted for the truth of its contents, but only to show that sections of NUREG-0760 had been drafted prior to the completion of interviews...

The implication is that Gamble does not presently stand by the conclusions of his reports. First. Gamble did not testify concerning the contents because he was not permitted to do so. Second, the fact that Gamble provided the reports as part of his testimony indicates that he would stand by his conclusions, under oath, if given the opportunity.

3.6 <u>The Staff is wrong, and deliberately so, in excusing its deletions</u> of the Aamodt Motion as clerical errors and attributing this explanation to the Aamodts.

The Staff is in triple jeopardy. The Staff provided a false explanation for criminal behavior, and then attributed the explanation to the Aamodts. In its response, at page 6, the Staff stated:

The Staff's intent to influence, <u>according to the Aamodts</u>, is shown by the fact that virtually every other page of the Aamodt June 21, 1984 Motion was not copied and sent to Dr. Caldwell. The deletions did not follow a pattern of virtually every other page missing. The following analysis shows that the Staff's assertion is wrong:

Order of Missing Page	Identification in Original
Third	Page 2
Fifth	Page 4
Sixth	Figure 1
Ninth	Page 6
Fourteenth	Page 9
Sixteenth	Page 11
Twentieth	Affidavit 2
Twenty-second	Affidavit 4
Twenty-sixth	Affidavit 7
Twenth-eighth	Affidavit 9
Thirtieth	Attachment 2
Thirty-first	"
Thirty-second	"

There are only three sequences of every other page deleted. with thirteen possible. In addition, <u>parts</u> of the eighteenth and nineteenth pages (Affidavit 1) were deleted.

It was the lack of a pattern that caused the Aamodts to conclude that the deletions had been performed deliberately In a February 12 letter to Staff counsel, Mary E. Wagner, the Aamodts asked the Staff to corrects its filing. The Staff has refused to do so. Marjorie Aamodt again requested a correction by the Staff in a letter of March 5. This correspondence is provided as Exhibit D.

3.7 The Staff is wrong, and deliberately so, when it asserted that health effects were not an issue in the TMI Restart Proceeding.

In 1981, the Licensing Board permitted the litigation of the matter of an apparent increased incidence of neonatal hypothyroidism in 1979. The Board made findings on the matter in its second partial initial decision (December 14, 1981). The Aamodts took the matter to appeal in 1982. It is incomprehensible that the Staff was so poorly acquainted with the record of the hearing to respond:

...health effects of the TMI-2 accident were not an issue in the TMI-1 restart proceeding. (pp.11)

3.8 The Staff is wrong, and deliberately so, when it asserted that health effects do not bear on any issue in the Restart Proceeding.

The Staff asserted that the excess cancer mortalilty rate in the TMI area "does not address any issue bearing on a TMI-1 restart decision (pp. 10). The Staff assumes that the cancers could not have been caused by the TMI accident because the latency "cancer occurs after a long latent period.." (pp. 11). The Staff cited the CDC review as its authority on latency period. which provided no adequate definition or reference of the latent period. The Staff failed to address the Aamodt critique of this portion of the CDC review. It is provided as Attachment C; see pp. 3.)

The Aamodt critique rebutted CDC's view on cancer latency as follows:

...CDC presents no basis for its assumption that a cancer resulting from exposure from the TMI-2 accident must necessarily take at least one year to develop. Neither CDC nor anyone else knows precisely what the active agents may have been. CDC presents no evidence that cancers cannot occur with -

out a "long" latency period. Short latency periods are known to occur. Note the literature on organ transplants and the effect of depressed immune systems. Could the role of a causative agent emitted from TMI have been to suppress the immune system? (p. 3)

The latency period for cancers in humans is inferred from epidemiological studies, thus providing an average period rather than a minimum. The only truly scientific data on minimum latency is with cells in the test tube, where the latency is six weeks, and in animals, where the latency is three months. (These studies, or an affidavit can be provided.) The Staff position did not allow, in addition, for exaberation of existing disease by radiation from the TMI accident.

The Staff failed to consider the other health effects of metallic taste, erythema, diarrhea, nausea and vomiting, irritated and watery eyes, respiratory inflammation, disruption of menstral cycle, skin rashes and blisters, greying and loss of hair, sharp pains in joints, and tingling or itchy skin experiences by hundreds of residents on the initial days of the accident. (See Aamodt Motion, January 15, 1985. Attachment 3 (Health Study), Affidavits 1,2,4,5,6,7,Attachment 3.) The residents largely experienced these symptoms prior to the time they knew about the TMI accident or realized a danger existed. These same kinds of symptoms were experienced by Hiroshima victims and are classical radiation-induced health effects. The NRC Staff has admitted this in various communications with residents. (See Id., Attachment 2 (pages from Saxe book); Aamodt Motion, June 21, 1984 pp. 8; NRC letter, Dircks to Commissioner Ahearn, "Draft Letter to Ms. Brenda A. Witmer, June 14, 1983.)

3.9 The Staff is wrong, and deliberately so, when it refers to the

increased cancer mortality in three TMI areas as "alleged".

The Aamodt Motion (January 15, 1985) clearly stated its basis for asserting that the cancer mortality incidence had been verified.

- pp. 4 ...Death certificates were obtained from the Pennsylvania Department of Health. The population for the areas surveyed was checked by use of the West Shore School District survey, conducted at the approximate time of the citizens' health survey, and tax maps.
- pp.4. Attachment 3 : Figure 2 presents the cancer mortality rate analysis. The estimated numbers of persons in all households (the population) for the areas surveyed was verified by the West Shore School District survey conducted about the same time and tax maps. The prior extimate of 457 persons was lowered to 433. Eighteen of the twenty cancer deaths reported were verified by death certificates obtained from the Pennsylvania Health Department. Two reported deaths were dfropped; one (cancer) occurred before the accident (1978), and the other was not attributed to cancer on the death certificate. ..One cancer

death certificate was delayed because the place of death was a hospital and not the residence. A cancer death, not obtained in the survey (noone was at home), was discovered in the followup, and the death certificate was obtained Thus, twenty cancer deaths have been verified as occurring in the areas surveyed during the post-TMI-2 accident period.

Additional verification of the above is provided by a letter of January 14, 1985, Drs. John Cobb and Jonathan Berger to Marjorie Aamodt, provided as Attachment C.

4.0 Discussion

When the Aamodts approached the Commission on August 15, 1984 concerning the elevated cancer incidence in three areas near TMI in the direction of early plumes, the general concensus among the Commissioners was that the cancer deaths should be verified. The presumption was that if, and when, an excess of cancer deaths was verified, this would indicate the need for an NRC investigation.

That verification occurred through the independent actions of the Three Mile Island Public Health Fund at the request of the court. The NRC was provided with the information in the Aamodt Motion of January 15, 1985. It was expected that this information alone would have moved the Staff to support the Aamodt's request of an investigation and a reopening of a hearing. However, it did not.

The Staff's response was literally chilling. This agency on which the public depended throughout the TMI crisis and now, throughout the cleanup operations, professed no interest in realth problems and would not even acknowledge that the excess of cancer mortalities had been confirmed. The Three Mile Island Public Health Fund, the TMI-2 Cleanup Citizens Advisory Committee, Judge Sylvia Rambo, Dr. Thomas Cochran. Dr. Jan Beyea, Dr. Bruce Molholt. Drs. Berger and Cobb, Senator Arlen Spector and Mayor Stephen Reed (Harrisburg) have all expressed interest in the Aumodt health study. Four letters from individuals among these named above are enclosed as Exhibit E.

The NRC Staff pretends to be disinteristed and unimpressed.

The fact that the Staff would prefer to resort to false statements, deceptions and other criminal behavior rather than face an investigation of the TMI health problems cannot indicate anything other than a distorted interest of the Staff or the intent to coverup.

It is imperative that the Commission investigate the Staff policy and actions which resulted in the Staff's response to the verified increased cancer mortality rate in the TMI area.

5.0 Motions

5.1 The Aamodts motion for permission to reply to the Licensee and Staff responses to their January 15, 1985 Motion.

5.2 The Aamodts motion for the striking of the false and misleading statements in the Staff's and Licensee's responses.

5.3 The Aamodts motion that the Staff be reprimanded for its attempt to obstruct justice in the Restart Proceeding.

5.4 The Aamodts motion that the Staff be reprimanded for its abbrogation of duty concerning health effects in TMI area residents.

5.5 The Aamodts motion the Commission to initiate an investigation by the Office of Internal Auditor of the policy which has directed the Staff's false response to the Aamodt Motion.

6.0 Conclusions

The Aamodts have asked the Commission for the opportunity to be heard, out of turn, to correct false and deceptive statements in the Licensee and Staff responses to the Aamodt January 15, 1985 Motion. At the same time, the Aamodts have provided their reply since the Commission decision is imminent.

The Aamodts have shown that the Licensee and Staff have no. evidence that refutes the Gamble report that TMI-2 personnel lied to the Commonwealth Bureau of Radiation Protection concerning radiation surveillance.

The Aamodts have also shown that the Staff has abbrogated its responsibility for public health in its utterly false response to the motion. (The Licensee made no response concerning health issues.)

The Aamodts have asked the Commission to censure the Staff for its attempt to obstruct justice concerning the litigation of health issues and initiate an internal investigation of Staff policy.

Respectfully submitted.

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Norman D. Aamodt

Marjorie M. Aamodt

March 6, 1985

EXHIBIT A

Deposition of Thomas Gerusky, William Dornsife Margaret Reilly, May 3, 1979 The second states and the second states and the second sec

Al Priorities, Elemental and A. S. 213. An exploration of the stime is new 12:11 p.m., and an end of the threads with the structure of the thread of the threads and is the Structure of the thread of the threads and is the Structure of the thread of the threads and is the Structure of the thread of the threads and is the Structure of the thread of the threads and is the Structure of the threads of th

Divide the series what our intent is or purpose or charter for the investigation is to orthanily look at the licenses's actions and the adequacy of these actions. And the tite first first specified for our particular portion of the investigation is March 28 through midnight on March 30. So what we are hoping to accomplish, at least, by having some discussion with you, to discuss, prior to the incident, the state and nature of coordination that existed takets yourself and Metropolitan Edison, and than trace through some of the early notification sequences. the type of information that was relayed back and forth; and then discuss certain of the licensess actions in light of information that you may have provided or certain actions that you may have accomplished in support of their response. I guess probably

Officer at the time. They be a list of our noise and phone not eas. It's updated conthing. It states. I get a call thest 7:05 styling that "These Hele has diclared a place space. Call tack to the control runs Unit 2." In called y after that I called Heggie failing and wanted to make sure, to see if there was any phone numbers we had directly to the control room. We didn't. She didn't tell make had any - I guess we did have one to the control room.

BETTLY: I just rattied off the switchboard

Wint whead and called Tom to tall him to get somebody to get in to take over the office.

RETULY: The first parson I called was Malloy.

- 1 M . 3 = 7. 0

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Ministry: Okey. Well I called back to the plant immediately after hanging up with Margie, which was about a minute later, and I got the switchboard. The switchboard operator had difficulty connecting me with the control roca. She could get the control room, but she couldn't get us together. So finally after a couple of minutes I told her, "why don't you have them call me back at my home." So I gave her the number and about a minute later someone from the control room called me back. I forget, I don't know whather he even told me his name. I guess it was the shift supervisor, whoever was on duty at the time. Things sounded very confused at the

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plant. You contit there a fit of actse in the bookground. I started asking questions a fight post. They give as a little bit of blurb, but I deale with the deal. This is just from remory. I believe he told a the third the sould us a transfert, the plant was shut down, the reaction hid and ind. The system was being cooled normally. The safeguards 5 contrast the is is a stight pussure in the containment. At the it is you with not the righting constraining the rollief valve sticking. That a still y d'hait say anything about anything being carried over to the r diff by tuilding at that thes. But they did tell ra that there was wo'r This with the They that they couldn't find anything cristing Co I g and I caked a few questions additionally, what I thought 11 was any printe. I don't really recall but I satisfied myself that the 1: 1 11 First Excess ma, just for a second, Bill. You indicated that they had 15 to'd ine at that they, this was shortly after 7:00 in the morning, that 1 they to i not found arything offsite. 17 12 DENSIFE: Right. They definitely had tears out, they could not find anything 15 offsite. 20 21 ESSIG: Ckay, sorry. Go atead. 22 23 GOTHSIFE: Then I heard in the background, an announcement-- "evacuate the 24 fust handling and euxiliary building." 25

willig: It mally an is you feel good. (laughter)

All along that in validing for schooly to tall cold is a will. When I heard that I figured "check this is the biggy." The hear will a parature engage by put on a health plustes the start in the first parature engage by put on a health plustes the start in the first parature engage by put on a health plustes the start in the first parature engage by put on a health plustes the start in the first parature engage by put on a health plustes the start in the start of the sold, they had no readile optimity. Sight then the consumptions he said to see, "I have to go, I really have to go now." We y confiered and vary uppet. "I really have to go now; I'll call you block" and he hung up.

DE VILLOION: This was about what time?

Mistre: This was about ...

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PETLLY: A quarter after seven.

ACCHSIFE: Well, in that time frame, quarter after-twenty after, shout thanty after, I'd say. He hung up. So I figured, at that point I brew people ware coaing into the office. I figured there was no reason to try and call him back so I just took off and headed for the office. Ch no, I'm sorry, I called into the office after the plant hung up on me and I told one of the secretaries who was there-I told her, the first person tho comes in to get them to call back to the plant immediately. And just briefly told her that there was a problem there, but not to alarm ther needlessly, because at that point it didn't seem... the situation so id to

to minimize that, this that is they used telling me. Except, of C. . I Liff. ..., a third wit, so a standard formats in which initial retiffe tires are to to presided to you? Find 1: Yes, thing and. In the clury any plan there is a check-off list, kind of. Company That's in the State's PIPEG, or in the State ... FTTYY: It's in the serie to the... DOT SITE: It's in the procedures part. DI MLDSON: The annex to the Three Hile Island emergency plan? Manistre: Yeah. DONALDSON: Then that information was or was not provided in that format? DORNOIFE: The way I recall the format, it was not absolutely--someone reading down the whole list--no. It was somewhat disjointed.

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Statist 1: In the tag as which for the fact one of statist for the n that for at the my head on the to the temp and dotted on the provided?

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pir sing: No, I dua't bolieve so. The forest is pretty ground. It withs should a little tit of plant choice, you know. I dea't really the it will have the children on I get a sectially the information I would've gutten through the chicklist by what they told me and with the questions I asked.

Littly: The format in the plan, it's a finity of formats actually, that are based on design tests accidents and on anticipated transients. For firstones, a UCCA or a loss of AC, or a loss of load, or a fuel rod ejection, things like that, things that have a recognized beginning, and they're essentially developed out of SAR information.

Generic classification of the type of event that they thought that they might have had?

DORNSIFE: I believe they told me it was a transfent, and that complications had occurred in addition to the normal transfent.

DOMALDSON: They did not mention anything such as a steam generator tube rupture?

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RETILY: We availably know that fairly early.

Sallate: Wall, we did git to that later.

E The Dir A Try Charts to part of from the boulds of pick on, whencer has so lithing to offer from that point.

Entry: Chry. At this point I got into the office of it 7:0, those does Guessly was already nore and on the phone with the plant. And it was around that point that they rolled even free a site to a guesnal. Okay. Foreshile the rost of our pupple ware cooking in. Fairly curly in this thing I contacted the Department of Agriculture because we always purceive that there is a good chance of having a defry problem with a result resident. We were disappointed with this one. We didn't really with a result resident. blow my mind. Let's seels, we got the map out-all that good stuff.

GERUSKY: No, wait a minutes. Let's stop. I was the first one in the office after the call from Margaret. And the secretary gave me the information that Bill had called and that I was supposed to call the Island right away which is our normal procedure anyway. The first parson into the office calls the Island, calls the reactor control room.

F The Theories and Son, I tell is you have a merbon that's a station of all foto ft.

Control I called Stimples. I dealt know why. I've got it written do an I have no idea why I dialed that no bar unless that was the number Gill Cont. This is the not a I to have I may setting involved.

6 MFE: I didn't have the plan at home with me. In hindsight, I goess is if yid how. That was our plan originally, to do that, but we have get a line it, y t.

errord: You'ra supposed to have the plan at home with you.

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<u>ECTIFE</u>: Yesh, wall, no one ever give it to me. I think there was probably culy rivet a five minute lapse in computestions with the control room, if the till tit g.

GENERY: Wall, I baliave I was in the office about 7:25 and made the call thack to the control room. They told ma that it was a site emangancy, that there was a steam generator primary to secondary leak and it was isolated; is that there was a general...at that point they want from site to general energiney.

DIVALOSON: Tom, do you remember who you were talking with?

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2. A denoted gut the uppert. They then said they were going a site to a contral company, that they had <u>failed fuel</u>. The done a really fill R par hour in the reactor building and they had contra to be out checking. They told re the wind was out of 30 degrees in a site of the the total of the total of 30 degrees in a site of the total of the fuel; a high pressure injection initiated; some is a site of the total of the total of dose offsite, based upon the total of the total of the done conitor. They predicted 10 R/hr reble cost, was sure at Goldsboro, based upon the done monitor and a leak rate of .2 of a parcent par day in the containment.

El 140° 1: That 10 R, was that a time dependent or was that a course of coaldest projection.

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Child Contains an arold it. ... that is a 10 R/Lr. Valthin contact a Child Contains.

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Y: And I think you contracted the Store Council of Civil Torinov, to indice the end of a theorem of it. I was folding the information of the top to to it is a store of a the vist side of the river. In the life I required the to try to est their terms souther to folditure, and they contract the try to est their terms souther to folditure, and they contract the try to est their terms souther to folditure, and they contract the first folder to its after and on the folditure. We stryed on the place with them. They found no mediation levels ensite on in Coldition the place with them. They found no mediation levels ensite on in Coldition the place with them. They found no mediation levels ensite on in Coldition the place with them. They found no mediation levels ensite on in Coldition the place with them. They found no mediation levels ensite on in Coldition the place with them. They found no mediation levels ensite on the place with them. They found no mediation levels ensite on the cold the place of we asintained an open line to the Unit 2 control noom, and a verifety of people were on the phone including-Bill was on mainly I believe. You were on the phone with them, and here are your notes Bill.

DORRESIFE: The next notes we have is, about 8:30, somebody came down, I think it was Hittendorf, who is the Deputy Secretary of Environmental Protection, Tom's boss, came down and said that they wanted somebody to go over to the Lt. Governor's office and brief him and to take part in the press conference. So I could volunteer since I probably knew more about the plant status than emybody at that point. So right before I left I

call dit is to the place of a first start and paid befefting on a stat happened and what the status is, the its I have to go over and bufef the Control to 1 g to 1 g till close the prime. Confy was the station superfor he total of the provide a stat there was a turbing total, una there are not that a us is here a size. I goods to mant by that, I a total a constant of the bas he effects and the He de time and a statistica of t. A spirs. Ha stid that the data a posts doos rates wire less than 1 million par hour; there was a pulling to they first; the O attained and the des feet state there are fuited fort; the set of a country that relation cost of circulation; that is a there a life a tid Wir; there are 1 15. pressure in the reactor bulling, congred diversitionic; that the boron concentration in the primary is 100 . I, and they surpacted there was a negative feedback from the secondary to the pricary. They got some secondary side wat back into the performents a the pressure was reduced in the primary. High pressure f Chulen had infalls. I and they were using high pressure injection to keep the core covered. And they may have had a butble in the pricary; they depressurized. Than I want over to brief the Lt. Governor.

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<u>DC MOSON</u>: At this time did they discuss any releases or any possibility for releases, at any time in the future?

Constant communication. I'm sure that was Hiller just briefed me on the plant status--what had heppened, what initiated the transient and what

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sured offsite.

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I I tille a st shout 10:00 or 10:30 is when they received sort is a first official g that there may be so a locals of foster. C is a first of 1 his star recollection?

Firstly: Thu's disct right. They had taken some airborne follows opens the Aline of the solo, I were ber one value south of the obsersolution in the solo, I were ber one value south of the obsersolution in the states that they had from the field estimating the figure sectors of follows that they had from the order of 10^{-8} mC per the figure sectors of follows that they had from the order of 10^{-8} mC per the figure sectors of the variety this because this was getting into a rather interval of the pathody hazard, although not an acute problem. They there is variety their estimate using our counting equipment. In that the figure state of the pathody for pot. Arrangements for this were there is a statistic code to be performed and we would send a remain over to get it. I think I must of spant the greater part of 3/4 of an hour trying to get through to whoever at the hospital was in authority to tell them, "there is a helicopter coming with the sample-mot to worry." To finally ve straightened that out and we ran the sample, and the concutration we observed in that was to the order of 10^{-10} . Solutions

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EDIBLOSON: What was the minimum detectable amount on the counting system?

a at this tire and "highe can do a built in-11 - 1 - 1 when on the other side. The time is the 12 03 p.m. · 1.1 tion of the config of the pilos title · . · · · · · mances. The time for an 12:13 p.m., May 3. 1.3. 1 : I is ran out, I had asked you if you could τ. r.... 11 U. 1 7A, " The activity, for the.... 10 17 st pla from the st place . I have no knewled to be 13 which ft. Cur us 1114, 1, 20 3 x 10⁸ cc sample, with a • • 11 .1 ch and their state, our MDA on that is *-This would be a routine st ple, but I don't know what it and and bear 20 for this one. Division: I wonder is it is discuss a little martine relation the thought process that went book and forth regarding that state ple, and thitter or not you the fate any actions or record any further studies on the part of the diansee. ETILY: Okay. Well, they are a fig to take air samples and looking i 24 for airborna fodines. Bas dien " ther-the conflict between their 25

and the second s AN A TAKE S STOLEN STOLEN . of the thig it care full is to the . the state is the state of the s · · · · the set of the de the de theter is beet en de la la la transmission e et de la transmission d'un de tra at the second second

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the ht i which to get and fight guy his all lot-to-trot to ge out and The Court of All Courts CAL States States to group of and a state of the there I will do a fight to effort in the fight the start that the fight that as that gift y first, is caller would go on, and that we would get tack to the first of pling motional, depending on how the situation developed. Se . Tora in there too, recard the time I was trying to tell Holy Hilton able a bills that is a fig. in . the call from ... I don't knowe of dive will the the choid to will de? I don't not the but on

Carte Ha called us.

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PRILLY: The RAP (Religical Assitunce Plan) gang at Brookhaven called and said "H-y, do you want us?" I said, "I'm not sure yet, we'll call you back." Of course, I was thinking, well you know it would really be ducky. their ET was like four hours anyway. I thought, well, by that time things may well be over. Then later on we decided, well you know, we will drag them down. They got have around supporting, I guoss.

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Estimate the state of the

REILLY: It could have been early afternoon.

<u>CERUSKY</u>: No, it was late morning, because I was hare when the dicision was nade. You were here. I think you ware here when we get the information over ther-well, we get it while I was here anyway, and after that I want to the Governor's Office in the corning so.. Contraction and the state of th

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I have a group to the proce conference, and you called a sight in 1 have d told a first y had hand 10⁻⁸ of finding in faith theo.

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be Sind: That was about eleven.

the state is it is it was on its way out.

Consisting: Yoah, in fact everybody got mad at me over there, because I just is consist on the say over-shefore I want up there and I didn't tell anybody about it. We know there were small releases. I told the Lt. Governor and I everybody that there was nothing detectable offsite. And I told the press that they'd found a little bit of iodine...

GERUSXY: We heard you on the radio.

REILLY: Could hear Bill shouting on the radio eventually.

DOMALDSON: Do you recall whether or not, when the result of your counting of that sample had returned and you passed it on to someone at the size,

EXHIBIT B

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Report Provided by David Gamble as part of his testimony in the Remanded hearing

* Second of two draft reports

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Correction Rewrite

DETSITE EXPOSURE RATE

At about 0740 on March 28, 1979, the licensee attempted to report to NRC Region I the General Emergency involving known major fuel damage. 1/During telephone contacts with Region I personnel, which began at about 0750, the licensee did not motify Region I of an offsite release calculation which predicted significant exposure rates downwind toward Goldsboro.2/ The reportability of that prediction is the object of this investigation.

Except for minor time variances, matters bearing on the reportability of the offsite exposure rate prediction have been described rather consistently by TMI-2 accident participants and investigators.

Prediction -10(402) R/br in Soldsboro

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EXALDIT /

Upon arriving at the plant in more to hear a Site Emergency announced at 0655, Howard Crawford, a nucleur engineer, proceeded to the Unit 2 control room, Upon arrival, he githered materials to be made in predicting of on Filmois of me reduce in filling do mailer liading, 3/ recover rates, a task he had performed during drills for two years. 3/ Crawford recalls that his first calculation, completed soon after 0700. chief, an exposure rate of =D 1/hr in Goldsboro. Neither the time, nor 4CRIK the result of this calculation has been substantiated by records of the recollection of others." -is not retirent to this ince a similar, documented ear, itien f to this is

interneticaria.

prediction (10 R/hr at the Low Population Zone boundary) was performed before the licensee reached NRC Region I by telephone at about 0750. The quest this, is urbitler this IOR/An prediction are properly reached This, prediction (10R/hr at the LPZ) appears to have been performed by after 07/3, the framminger Crawford during or after the massive release of radioactives, to the reactor building atmosphere. Which began at 000 R/hr with the time and for which the degan at 000 R/hr are uncertain. Accurate or not, the 300 R/hr reading (300 R/hr), are uncertain. Accurate or not, the 300 R/hr reading formed the basis for infinite of MP-R-214 was read or when the calculation was performed. Therefore, Mr. Crawford's prediction of 10 R/hr at the LPZ seems to have occurred between 0713 and 0744.

Crawford recalls discussing a 40 R/hr prediction with Richard Dubiel, Supervisor of Radiation Protection and Chemistry, and with James Seelinger, Unit 1 Superintendent.^{6/7/} Dubiel and Seelinger recall and discussions only concerning the 10R/hr prediction.^{8/9/10/11/} As charf provided by Hor and 10 R/hr prediction.^{8/9/10/11/} As charf provided by Hor and 10 R/hr prediction.^{8/9/10/11/} As charf provided by his distinction from the second for the second by the second for the seco

During the 6/6/79 interview, 7/ Crawford stated:

They both thought it appeared too high and they immediately talked, you know, possible steam damage to the dome monitor...they wanted to get a very good feel to see if they wanted to believe that number....

On 5/22/79, Dubiel_stated: 9/

... I don't think we ever had projections that were meaningful and I don't believe at that time we had any projections that indicated anything of a serious nature, even based on the procedures.

This statement appears to have been based on two factors - disbelief of _ the dome monitor reading and knowledge of low pressure in the reactor $m_{q/21/74} \sim \frac{10}{10}$ building - as indicated in the following exchange

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Q Do you recall doing an off-site dose calculation at approximately 7:10 on the morning of March 28th?

Dubiel I did not do any off-site dose calculations.

Q Do you recall verifying one?

Dubiel I recall verifying one. I recall looking at several during the morning.

And specifically, do you recall one that was made by Mr. Crawford based on a reading of the dome monitor?

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Dubiel Yes, sir, I dc.

Q

Q Do you remember verifying that one?

Dubiel Yes, I do.

Am I correct that Mr. Crawford's calculation was incorrect?

Dubiel No, I think Mr. Crawford's calculation was correct.

Q Was ... based on an incorrect reading of the monitor?

Dubiel No, I don't believe so.

Q

- Q What was the calculation of the off-site dose he came up with?
- Dubiel Approximately 10 R per hour gamma at a location which was the center of the town of Goldsboro, which is on the west shore of the Susquehanna.

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Q And your understanding is that, based upon the information that he had, he correctly calculated a projected dose of 10 R per hour?

Dubiel Yes.

Q

Can you explain how Mr. Crawford could have made an accurate calculation of 10 R per hour as the expected level in Goldsboro when in fact there were no detectable levels?

Dubiel I think that the single biggest factor in that particular



item is that the dome monitor did not respond accurately. The projected levels are based on the dome monitor readings, plus some very conservative assumptions. Since we are trying to do, in defining the procedure for dose projections, there are a lot of parameters which cannot be determined, so that conservative assumptions are made. And, I feel, first of all, that the dome monitor overresponded significantly.

I feel, secondly, that the building pressure of one or two pounds versus the conservative assumption of 55 pounds would add to it.

Earlier son Om 5/11/79, Gary Miller, TMI Station Manager, testified before the U.S. House of Representatives, Committee on Interior and Insular Affairs: 12/

Weaver: What did you think of that? The high reading on that dome monitor?

Miller: I just did not think about it in terms of fuel damage. I knew that it meant there was a potential to release things offsite. My only concern was to get readings.

Cheney: Did you have any question about the values of those readings?

. . .

Miller: I thought it was too high, but I did not need to be convinced that it was high enough to be concerned. It was reacting reacting 40,000 or 50,000. I mean that was beyond what I had ever envisioned ever seeing on the dome monitor, so you can discuss whether there was shielding and moisture and whether it was beta radiation, and all that sort of thing.

> But I did not need to be convinced. What I really wanted was somebody out there with a meter and an iodine kit sampling, and the wind direction. That is real numbers. That is really what someone is going to get out there. So that was our concern.

Onsite and Offsite Monitoring

Mr. Miller's statement reflects a common concern for getting radiation measurements onsite and offsite to supplement the Crawford prediction(4). Upon declaration of a Site Emergency at 0655, efforts to organize and dispatch onsite and offsite monitoring teams began. $\frac{8}{13}$ This seems to have occurred rather clumsily; nevertheless, an onsite team (Alpha) was instructed at about 0730 to measure the radiation level west of the Unit 2 reactor building. $\frac{14}{15}$ During that survey, the wind was westward and very light with minute-to-minute variations of about 10 to 30 degrees. This survey was appropriate, but tardy. At 0746, Alpha Team reported less than 1 mR/br at Station GE-8 west of the Unit 2 reactor building. As discussed later, this measurement became the basis for discounting a Crewford's prediction(s) of high exposure rates offsite.

At about 0800 and 0830, respectively, Charlie and Bravo Teams were dispatched by vehicle to Goldsboro. At about 0830, Charlie Team reported. less than 1 mR/hr in Goldsboro. Bravo Team reported similarly at about 0940. Given that there had been no significant release from the reactor building, these surveys seem adequate from the exposure rate measurement standpoint. However, had a major release occurred, these surveys would have been too little, too late.

This management appears to have realized the need for a quick measurement in Goldsboro to confirm or deny Crawford's predictions(s). In statements following the accident, Miller and Dubiel maintained that a State Police helicopter had flown a survey leam to Goldsboro soon after the General Emergency was declared. To the U.S. House of Representatives, Committee on Interior and Insular may 24, 1974, Affairs, Miller stated: 17/

At approximately 0730 or a little before, I had received predictions of an offsite dose of 10 R at Goldsboro. This was based on the Reactor Building dome monitor, which was still increasing and from our past experience with this source calculation, we did feel these were really this high, but as a precaution, I dispatched a State Police helicopter with an offsite team along with an offsite team in a car and separately, to the West Shore (Goldsboro).

0740 - York Haven radiation monitor reading (0) - helicopter (approx.) at TMI - dispatched offsite teams in helicopter and one separately in car to West Shore (from G. P. Miller and R. W. Dubiel recall of the incident).

0800 - Offsite team in Helicopter at West Shore (Goldsboro) (approx.) '0' reading - we actually were ahead of the plume plus onsite team at our West site boundary-'0' reading.

Lin, to En the NRC Special Inquiry Group Miller stated: 18/

- Q In fact, you or someone called the State Police that morning for a helicopter and you got one very fast, didn't you?
- Miller There may be---subsequently I know there's some disparities in my time versus the time the thing landed here or the time it's documented. I remember as soon as I had the projection, which was high, for Goldsbore and knowing the west---knowing the wind was blowing to the west and knowing that it was seven or eight in the morning, that I know that I asked for a helicopter before seven thirty.

I knet that that was in my mind and knew that I had the fork Haven monitor out over there and I knew I had a guy on the West Shore. That's something that I had practiced and thought about it. Even in the Unit 2 hearings when we discussed the wind blowing west, slow as it was.

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Do you know whether the helicopter actually came on the site and picked up somebody to go over the river?

Miller To my knowledge it was verified to me that they picked up
one or two of our people and they were flown over there.
And readings were back, and as I remember the readings
were back before Dubiel had thought the plume had gotten
there. In other words, we had gotten over there faster
than the radiation would have at the wind speed, which
was very slow.

On 4/24/79, Dubiel, stated: 8/

At some point around 7:30, Gary Miller asked me for the status of the offsite teams, and I gave him the information that we had two teams ready to go offsite both available for transportation over to the West Shore. Gary directed me to make contact with the State Police and get a State Police helicopter to get one crew over there in a more timely fashion. He was concerned about the traffic--the early morning rush hour traffic trying to go up over the bridge in Harrisburg and then back down and that it might take an hour or more to get over there. He requested that we send one team in a helicopter and a second team in a car of driving over at a normal pace to back them up. I do not recall exactly who told me that they would get the State Police helicopter. I believe it was George Kunder, I do not remember exactly, but within minutes I had it confirmed to

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me that the State Police had been notified, and a helicopter would be on its way since they are stationed up at Harrisburg, Harrisburg . International Airport. It would be here in a matter of minutes, and that security was notified that this helicopter was coming and would be landing somewhere in the vicinity of the north parking lot, and that they were to allow it to land and make preparations to support its landing in getting our technician on board.

... the timing may be poor but I am estimating 7:40 we had a man in the belicopter and sometime by two to three maybe five minutes later the man was in Goldsboro.

By 9/21/79, Dubiel's position regarding the helicopter survey had charged.

Did you have any role in ordering a Pennsylvania State -or requesting a Pennsylvania State Police helicopter to come to TMI and take a team to Goldsboro to verify what you thought and hoped was the fact, which is that it did not have a 10 R per hour reading there?

Dubiel Yes, I was involved in the determination for the need of a helicopter. I did not make the specific request.

Q Do you know who did?

Q

Dubiel George Kunder made the request via the site protection officer. It might have been a sergeant, someone in the security force.

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Did the helicopter arrive?

Q

- Dubiel The helicopter came in. I don't recall a time. I believe it was an hour later.
- Q To your knowledge, did a team go in the helicopter to Goldsboro and take a measurement?
- Dubiel I thought one did. I have been led to believe -- when we determined the need for the helicopter, we simultaneously sent a team in a car to drive around. But recognizing the time it takes to get there, we requested a helicopter. Which team got there first I don't know. I know the helicopter was available, because I subsequently used it for other things.

The fact seems to be that TMI management, being concerned about potential exposure rates in Goldsboro, did order a helicopter after declaring a General Emergency at 0724. We However, the helicopter did not arrive until 0835, by which time Charlie Team had reported in from Goldsboro and Bravo Team had left by truck for Goldsboro. The helicopter was not used to transport a survey team to Goldsboro.

By 0830, when Charlie Team reported less than 1 mR/hr from Goldsboro, it was clear that a wajor offsite release from the reactor building had not occurred. But little comfort should have been derived from that knowledge while the reactor building contained an inventory of perhaps 300 million curies of noble gases and other radionuclides

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Reportability and Reporting

The situation was intuitively reportable to NRC under 10 CFR 20.403, which requires immediate notification "...of any incident involving byproduct... material...which may have caused or threatens to cause... release of radioactive material in concentrations which, if averaged over a period of 24 hours, would exceed 5,000 times the limits specified for such materials in Appendix B. Table II...." Face X = -133 The Appen Tere II limit is $3 = -7\mu G/ml$.

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There was no reason to believe that the dome monitor (HP-R-214) increase was transient, the "immediately reportable" concentration of wastrenetore Xe-133 would beve been 1.5E-3 pCi/ml (i.e., 5000 x 3E-7 pCi/ml). Woing + storce ter of 1325 Citsec and + X/C of 2.5E-4 seconds per cubic meters not By had obout, 0744 Crawford, used Radiation Emergency Procedure 1670-4- Rev-3, .deted 2/15/78 to calculate a concentration of 0.33 µCi/ml at the LPZ, 220 (110 concentration the times, the "immediately reportable" concentration ! Lising the same probiti minid as an intermediate stipe in using kas aris gedure, the minimum concentration immediately reportable under 10 CFR the los (1.55-3 perfor) can be sound to correspond to an HP-R-214 reading-at the LZ.) -0: 051y 1.4 R/br.

Early in the accident, the licensee logically could have challenged the Procedure 1670.4 calculation on the basis of low reactor building pressure. But as the reactor building radioactivity inventory increased, as measured by HP-R-214, the licensee should have become progressively less concerned about the conservatism of the calculation and more concerned about the magnitude of the potential hazard. Telephone contact between the Unit 2 control room and NRC Region I was established, after appropriate efforts by the licensee, at about 0750.4/ Although earlier contacts had been made with the Region I answering service, this was the licensee's first good opportunity to report the accident in accordance with 10 CFR 20.403.

(C. JJ E/MC) at the LPZ However, the 0744 prediction of 10 R/hr was not reported, apparently because the first onsite measurement at point GE-8 west of Unit 2 (1 mR/hr at 0746) had been used to calculate a new source term at 0750. Although this one onsite measurement did not prove that the release was insignificant, the licensee could have concluded justifiably that the Counter and for the situation release was not as bad as the term of the situation remained however, in that: (1) the incident still threatened to cause a major release and (2) offsite field measurements had not been completed.

The licensee reported Crawford's 10 R/hr prediction to the Bureau of Radiation Protection but not to NRC. The only identified NRC reference to a high radiation level outside the plant was the following telephone conversation recorded after 10:00 a.m. on 3/28/79 in the NRC Operations Center

VOICE: The indications are that low levels are being released, we will find out.

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VOICE: What is your MDC?

VOICE: There is no question that there was -

VOICE: There was?

VOICE: -- released when the incident first occurred.

- VOICE: Yeah, I heard somebody, I guess on the radio, I think it was from the Bureau, saying that there were 10 R per hour out the cooling tower.
- VOICE: No.
- VOICE: Was that emergency services?
- VOICE: I don't know who said that.
- VOICE: It was somebody from the State of Pennsylvania being interviewed, that's what.

It is unlikely that the licensee inadvertently omitted the 10 R/hr prediction when describing the accident to Region I after 0750. Clearly, from the Crawford and Dubiel statements, the licensee wanted not to believe the dome monitor and Crawford's calculation.

The licensee not only failed to report the 10 R/hr prediction to Region I, but also, according to the following statement of Thomas Gerusky, Director of the Bureau of Radiation Protection, countered the report to ERP with nonexistent Goldsboro survey results. In the meantime, I requested them to try to get their teams somehow to Goldsboro, and they said that the State Police helicopter was there and that they would get one of their teams up in the air and over Goldsboro. We stayed on the phone with them. They found no radiation levels onsite or in Goldsboro that would indicate any kind of a leak. So therefore, we then notified the Civil Defense to hold tight. This was all before 8:00.

The desire to disprove the 10 R/hr prediction, which could have triggered massive evacuations, is understood. Use of the first onsite, downwind measurement to partially achieve such disproof also is understood. The use of nonexistent offsite survey results to further disprove the prediction is not understood.

Conclusion

Nothing discovered in this investigation relieved the licensee of the requirement to report to NRC all pertinent facts concerning the accident. The 10 F/hr prediction seems not to have been adequately disproved by 0750, when telephone contact was established with Region I. The decision not to report the 10 R/hr prediction was improper. By not reporting to Region I at about 0750 on 3/28/79 that the calculational method described in Radiation Emergency Procedure 1670.4 had predicted a reportable re-lease of radioactive material, the licensee violated the reporting re-quirement of 10 CFR 20.403(a)(2).

- 15 -

References

- 1. NUREG 0600
- 2. Ibid.
- 3. Crawford Interview IE 48, 5/3/79
- 4. NRC Special Inquiry Group, Volume II, Part 3
- 5. Ibid.
- 6. Crawford Interview IE 48, 5/3/79
- 7. Crawford Interview IE 174, 6/6/79
- 8. Dubiel Interview IE 20, 4/24/79
- 9. Dubiel Interview IE 133, 5/22/79
- 10. Dubiel Deposition (SIG), 9/21/79
- 11. Seelinger Interview IE 77, 5/8/79
- Oversight Hearings, Subcommittee on Energy and the Environment, May 9, 10, 11, and 15. 1979, Serial No. 96-8, Part I
- 13. Egenrieder Interview IE 82, 5/8/79
- 14. Etbridge InterviewIE 89, 5/9/79
- 15. Burkholder Interview IE 99, 5/17/79
- 16. Leach Interview IE 47, 5/3/79
 - Oversight Hearings, Subcommittee on Energy and the Environment, May 21 and 24, 1979, Serial No. 96-8, Part 11
 - 18. Miller Deposition (SIG), 9/20/79
 - 19. Warren Interview IE 70, 5/7/79
 - 20. Report of the President's Commission on the Accident at Three Mile Island, Technical Staff Analysis Report on Alternative Event Sequences, Appendix E, Fission Product Inventory Within the Containment.
 - 21. Gerusky Interview IE 46, 5/3/79

EXHIBIT C

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Memorandum, December 1, 1981 Fortuna and Gamble advising Cummings of DCJ investigation of NUREG-0760

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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

December 1, 1981

MEMORANDUM FOR: James J. Cummings, Director Office of Inspector and Auditor

FROM:

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Roger A. Fortuna, Assistant Director for Investigations Office of Inspector and Auditor 2.75 A.

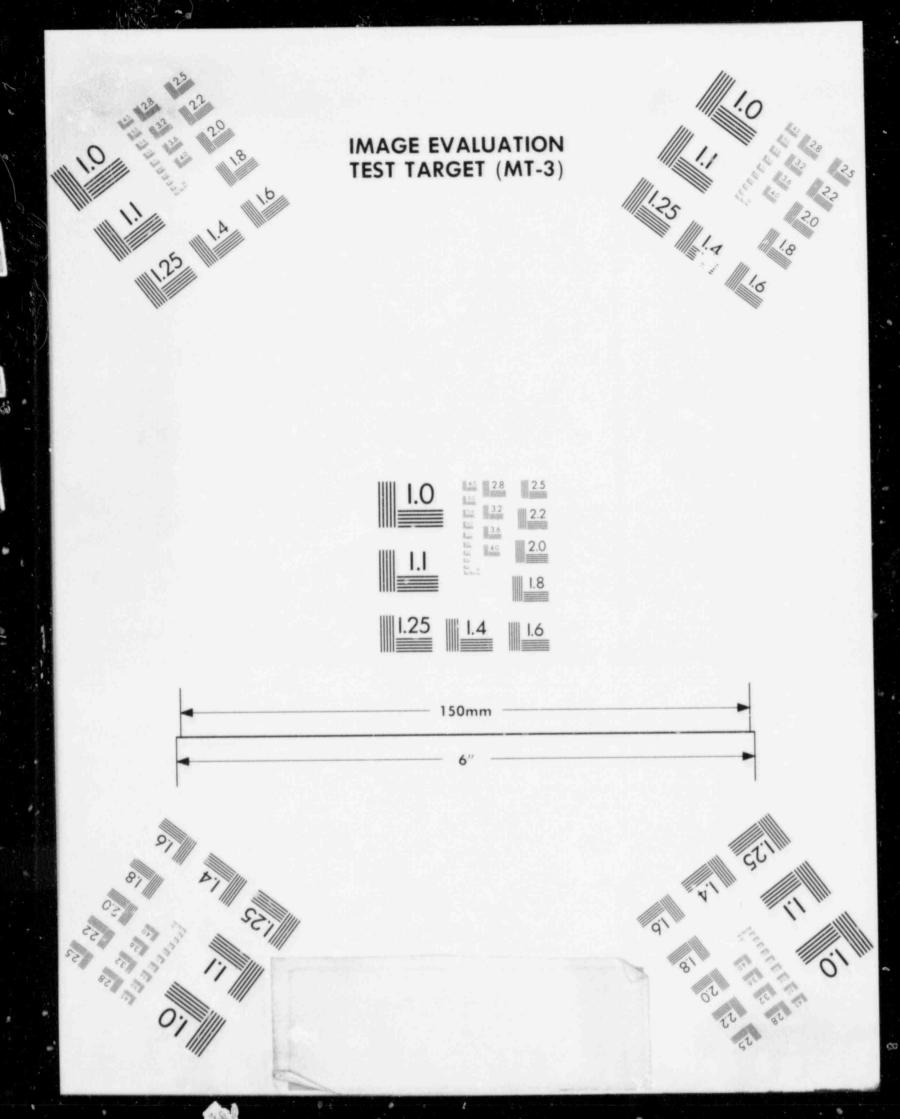
David H. Gamble, Investigator Office of Inspector and Auditor

SUBJECT:

QUESTION OF WITHHOLDING OF INFORMATION DURING THI ACCIDENT

On March 5, 1981, at the direction of the Commission, we met with representatives of the Criminal Division, U.S. Department of Justice (DOJ), to present the results of the Office of Inspection and Enforcement (IE) report entitled "Investigation into Information Flow During the Accident at Three Mile Island" (NUREG-0760, dated January 1981, hereinafter referred to as the "IE Report"), for their consideration as to whether the facts warranted prosecution for willful misrepresentations, omissions, or violation of NRC regulations.

At that time we also provided DOJ with _ draft of the report prepared by the Majority Staff of the Committee on Interior and Insular Affairs of the U.S. House of Representatives, entitled "Reporting of Information Concerning the Accident at Three Mile Island" (97th Cong., 1st Sess., Committee Print No. 3, dated March 1981, hereinafter referred to as the "HR Report"). We then advised DOJ that we were providing them with both reports because of an apparent difference in the conclusions reached therein regarding whether Met-Ed employees withheld information from the State and Federal Governments on the date of the accident at Three Mile Island. Not having read the HR Report, we were unable to describe for DOJ what discrepancies existed between the two reports. At that time DOJ requested that the Office of Inspector and Auditor (CIA) identify the portions of each report relating to the specific topics so that they could more easily analyze the discrepancies between them. Per your instructions we performed this task by reviewing the IE and HR reports without consulting the results of similar reviews (e.g., by ACRS) or other investigations (e.g., by Rogovin's Special Inquiry Group). In



James J. Cummings

this review we have avoided the temptation to characterize the contents of various sections of these reports in favor of referring to specific page numbers in order to insure that DOJ reads the actual words of the reports within their own contexts. The following are the results of our review:

I. Scope of the reports

IE Report - pp. 1-2, 33 par. 3, 35 par. 3, and 39 par. 5 HR Report - pp. 1-3

II. Identification of the primary individuals and organizations

IE Report - p. 33 par 4 HR Report - pp. 4-5

III. Availability and comprehension of information

A. Open PORV/EMOV as cause of low pressure in the cooling system

IE Report - pp. 16-17 and 33 par. 5 HR Report - pp. 6-11 and 93 par. 2

B. Throttling of high pressure injection

IE Report - pp. 13-14 HR Report - pp. 11-14 and 93-94

C. Temperature Data

IE Report - pp. 14-16 and 18-20 HR Report - pp. 14-33 and 94-95

D. Uncovering the core

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IE Report - pp. 14-16, 18-20, and 34 par. 1 HR Report - pp. 35-45 and 95-96

E. Uncertainty as to core cooling

IE Report - pp. 14-16 and 18-20 HR Report - pp. 45-54 and 95-96

F. Neutron detectors/count rate behavior

IE Report - pp. 20-22 and 34 par. 1 HR Report - pp. 33-35 G. High radiation levels in containment/Goldsboro radiation dose rate projection

IE Report - pp. 31-33 HR Report - p. 35

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H. Hydrogen combustion/containment pressure spike

IE Report - pp. 22-31 and 35 par. 1 (see also OIA Report, "IE Inspectors' Alleged Failure to Report Information re March 28, 1979 Hydrogen Explosion at TMI-2," dated January 7, 1981) HR Report - pp. 54-92 and 96-97

IV. Information received by the NRC

IE Report - pp. 35-39 HR Report - pp. 103-121

V. Information received by the State

IE Report - pp. 39-45 HR Report - pp. 103-121

VI. NRC reporting requirements

IE Report - pp. 45-52 HR Report - pp. 98-102 and 121

EXHIBIT D

Correspondence between Aamodt and Wagner concerning false statements in Staff response

200 North Church Street Parkesburg, Pennsylvania 19365

March 5, 1985

Mary E. Wagner Counsel for NRC Staff U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Dear Ms. Wagner:

I am in receipt of your February 25 reply to my letter of February 12. You have attempted to provide explanation for two statements in the February 4 Staff filing which I found downright misleading. I do not find your response satisfactory.

You claim that the Staff statement concerning the missing pages in the copy of our June 21 motion the NRC Staff sent to CDC was taken from our January 15 motion. You are wrong. How does your characterization "virtually every other page of the Aamodt June 21, 1984 Motion was not copied and sent to Dr. Caldwell" originate in our statement at page 6:

The intent of the Staff to influence CDC's critique is clearly revealed by the fact that the NRC removed eleven pages and altered an affidavit in the copy of the Aamodt motion sent to CDC.

Even if, we had so asserted, why would the Staff be satisfied to adopt what is not the truth? Setting aside the alterations to an affidavit, the missing pages do not follow a pattern of every other page, or "virtually" every other page, or any other sequential pattern that we have been able to determine. We are attaching a page from our March 5 filing which provides an analysis that debunks the "every other page" (therefore, clerical error) excuse.

Concerning the second statement to which we objected: You reply that you claimed that Gamble's references, not Gamble's reports, were "available for a number of years". That is true. However, it is misleading. You have attempted to switch the basis for our motion from the Gamble reports to the references of the report:

As for the alleged "deception", <u>the testimony of</u> <u>Mr. Gerusky and others</u>, which form the basis for the Aamodt motion, have been part of the public records for years,<u>7</u>/ and <u>this basis</u> for reopening should be rejected on timeliness grounds.

(Staff Response, pp. 9,10)

Since our basis was not the testimony of "Mr. Gerusky and others", but a specific conclusion of the Gamble report (available for the first time late last year), you have a false argument based on irrelevant information (footnote 7). We stand corrected on a technicality, but you still owe us the retraction of your false statement (above) which will automatically eliminate the objectionable footnote.

Very truly yours,

Marjorie M. Aamodt



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

February 25, 1985

Marjorie M. Aamodt 200 North Church Street Parkesburg, PA 19365

> In the Matter of METROPOLITAN EDISON COMPANY, ET AL. (Three Mile Island Nuclear Station, Unit No. 1) Docket No. 50-289 (Pestart Remand on Management)

Dear Mrs. Aamodt:

This is in reply to your February 12, 1985 letter to me in which you claim that there are two errors in the January 15, 1985 NRC Staff Reply to Aamodt Motion for Reconsideration of Commission Order CLI-84-22 and Opening of a Hearing (Staff's Reply).

First, you object to the following sentence from page 6 of Staff's Peply, which you claim is incorrect:

The Staff's intent to influence, according to the Aamodts, is shown by the fact that virtually every other page of the Aamodt June 21, 1984 Motion was not copied and sent to Dr. Caldwell.

Your complaint about this sentence, as described in your letter, is incomprehensible to me. The quoted sentence merely characterizes the claim in your January 15, 1985 motion for reconsideration that the Staff intentionally tried to deceive Dr. Caldwell of the Center for Disease Control by forwarding to him an incomplete copy of your June 21, 1984 motion. I believe the quoted sentence accurately characterizes your allegation against the Staff and, therefore, there is no reason to correct Staff's Reply as you request.

Secondly, you claim that the Staff is wrong when it states in footnote 7 on page 10 of Staff's Peply that the "Gamble draft reports" had been available in the NRC's public document room for a number of years. Footnote 7 does not state what you say it does. Footnote 7 reads as follows:

7/ Page 16 of Attachment 4, which page was not included in the copy of the Aamodts' Motion which was served upon the Staff, lists the references used in preparing this draft section of NUREG-0760. The documents referenced have, to the best of Staff's knowledge, been available in the NRC's Public Document Room for a number of years.

Footnote 7 does not state that the "Gamble draft reports" (Attachment 4) had been available in the NRC's public document room for a number of years. Rather, footnote 7 states that the references ("documents referenced") listed on page 16 of Attachment 4, to the best of Staff's knowledge, have been available in the NRC's public document room for a number of years. The Staff still believes this to be correct. Since you obviously misread footnote 7, and it is correct to the best of Staff's Reply on this point.

I hope this rectifies any misunderstandings you may have about the Staff's Reply.

Sincerely, May G. Warney Mary E. Wagner) Counsel for NRC Staff

cc: TMI-1 service list

EXHIBIT E

Letters from Drs. Cochran, Molholt, Berger, Cobb. Mayor Reed and Senator Spector supporting Aamodt health motion

Natural Resources Defense Council, Inc.

1350 NEW YORK AVENUE, N.W. SUITE 300 WASHINGTON, D.C. 20005 202 783-7800

New York Office 133 EAST 43ND STREET NEW YORE, N.Y. 10168 213 949-0049

1.1

Western Office 15 KEARNY STREET SAN FRANCISCO. CALIF 94108 415 481-6561

January 7, 1985

The Commissioners U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Dear Commissioners:

I am a member of the NRC's Advisory Panel on the Cleanup of TMI-2. I have not had the opportunity to discuss the contents of this letter with others on the panel and therefore do not speak on their behalf.

At the panel's last meeting with you, we discussed briefly the Aamodt study -- the finding of an excess of cancers as a result of door-to-door interviews with residents of two areas about five miles from the TMI site. Since our discussion, I have received a copy of your Order CLI-84-22, in the matter of Metropolitan Edison Company (TMI Unit 1), Doc. No. 50-289-SP, in which a majority of the Commission concluded that "the Aamodts' informed survey is based entirely on recollections and opinions and has no scientific basis," and that this was "insufficient to raise serious questions about earlier studies."

You should be advised that the TMI Public Health Fund Advisory Board, on which I also serve, has independently checked the Aamodt findings and confirmed the excess cancer mortality found in the Aamodt study areas. We have identified the death certificates of all but one of the people reported to have died of cancer and have independently checked the Aamodts' estimate of the total population in the study areas. We have not yet checked the reported incidence of cancer among living people in the study area. I would be happy to discuss our methodology with any one of you or your staff.

On the basis of our own independent analysis, it would be wrong to conclude that the Aamodt results are groundless. Certainly there now is a scientific basis for concluding that there may be a large excess in cancer mortality in the study areas.

> New England Office: 850 BOSTON POST ROAD * SUDBURY, MA. 01776 * 617 237-0472 Public Lands Institute: 1720 RACE STREET * DENVER. CO. 80206 * 303 377-9740

COT Recycled Paper

The Commissioners Jan. 7, 1985 Page Two

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I do not know the statistical probability of finding such a high incidence of cancer in this small study population. I do not know the cause of the excess, although I doubt it is TMI-related. Nevertheless, since your conclusions regarding the Aamodt results are not valid today, I urge you to reexamine this issue. Even if the excess is not TMI-related, surely you recognize how important it is for the Commission to take the lead in ensuring that more careful epidemiological study is undertaken and an effort is made to determine the cause of the excess.

Sincerely,

Thomas B. Cochran

cc: Mike Masnik, TMI Program Office for distribution to Advisory Panel members 50-2895P

400 Cowpath Road Hatfield, PA 19440 17 December 1984

Dr. Glyn Caldwell Centers for Disease Control 1600 Clifton Road Atlanta, GA 30333

'04 0. 26 P1:51

Re: Review of Aamodt Study for NRC

Dear Dr. Caldwell.

DUCKET NO & SERVICE BRANCA

SERVED DEC 2 3 1984

Your name is mentioned in NRC correspondence concerning CDC's review of the Aamodt cancer mortality study near TMI. I write you concerning the negative review your agency has given the Aamodt study such that the NRC is guoted as calling it "based entirely on recollections and opinions and (has) no scientific basis."

Having reviewed the Aamodt study and having some expertise in epidemiology, I am puzzled as to why CDC dismissed their preliminary findings so hastily. Although obviously in need of followup, the Aamodt study is credible in several important scientific manners:

All cancer deaths were reconfirmed after the 1) survey was completed.

Dr. John Cobb has obtained 12 out of the 20 2) death certificates in question and has found that 12 out of 12 attributed to cancer indeed died of cancer as primary cause.

The population base was large enough that the 3) SMR of 5 (4 expected, 20 found) is statistically significant at the 95% confidence level.

A true independent review of the Aamodt study by CDC would entail an analysis of cancer mortality frequency since 1979 in a larger area than surveyed by the Aamodts. Obviously, CDC has this capability. It might be fruitful to examine cancer mortality rates for census tracts in the TMI area 1974-79 v. 1979-84.

The surprising fivefold increased cancer mortality rates discovered by the Aamodts in their preliminary survey called into question NRC dose assessments from the TMI accident. Hence, it is circuitous to dismiss their preliminary findings on the basis that low radiation doses make such an increase in cancer mortalities untenable. The Aamodt study deserves careful followup and a truly independent review. I would appreciate it if the CDC would take this mandate seriously, as protectors and advisors to our public concerning their health.

Yours sincerely, MWClut Bruce Molholt, Ph.D.

cc: James O. Mason, M.D., Ph.D. Nunzio J. Palladino, Ph.D. V Jonathan Berger, MRP, PhD 442 West Schoolhouse Lane Philadelphia, PA 19144

John C. Cobb, MD, MPH P.O. Box 1403 Corrales, NM 87048

January 14, 1985

Mrs. Marjorie Aamodt snowhill Farm, R.D. 5 Box 428 Coatesville, PA 19320

Dear Mrs. Aamodt:

We would like to report to you the results of our follow-up of your study. These results are our interpretations and do not represent the view of the Public Health Fund.

Your original study reported 20 cancer deaths in a population of approximately 450. This represents, if true, a significant excess over the normal expected number based on the rates for Pennsylvania as a whole or York County. We decided that we could verify your analysis through the Commonwealth of Pennsylvania Vital Statistics and local school surveys and county tax records. After filing an application for confidential records with the Commonwealth of Pennsylvania State Health Data Center for 22 possible decedents, we found that 19 died of cancer, 2 of other causes and 1 remains as yet unchecked because the death certificate is not yet available. We checked the population number in the areas that you surveyed and found that the spring 1984 school census in the area substantiates your number although the evidence suggests that the population for the area may be somewhat smaller. It is our opinion that these data support a significant excess of cancers in your survey area. We have no opinion on the causes of these cancers.

Sincerely, Jonathan Berger

Jonathan Berger, MRP, PhD

John C. Cobb Professor Emeritus Preventive Medicine and Biometrics University of Colorado School of Medicine

JB/JCC:rjw



USNRL

85 FEB 26 P3:19

OFFICE OF THE MAYOR OF SECRETAN

CITY GOVERNMENT CENTER HARRISBURG, PENNSYLVANIA 17101-1678

STEPHEN R. REED MAYOR

February 22, 1985

SERVED EEB 22 1995

Mr. Nunzio J. Palladino, Chair Nuclear Regulatory Commission United States of America 7920 Norfolk Avenue Washington, D.C. 20555

Dear Chairman Palladino:

Today's official confirmation from the operator of Three Mile Island that some meltdown of the core of TMI Unit 2 did, indeed, occur during the 1979 accident, is a very significant admission. It contradicts previous denials of such.

During the TMI accident, a number of stack monitors, the maximum measuring capacity of which was 1000 REMS, were "stuck" at that level for a period of as much as eight hours. This means, simply, as we understand it, that emissions from the plant exceeded that significant emission level.

Locally, the question of short and long term health effects from TMI's accident and its operations before and since the accident have been vigorously debated. Since no conclusive data exists in the Nation to conclusively identify such effects, there is no local "comfort" from known data either.

I believe that it is imperative that the U.S. Government determine the levels and types of contaminants that would have been and were emitted from TMI during the 1979 accident, particularly in view of the fact a portion of the Unit 2 core actually melted under temperatures higher than what were ever previously projected to have occurred.

I further believe that it should not be so easily dismissed that because of the emission of such contaminants into a semi-rural atmosphere that these contaminants posed no threat to public health and safety.

NRC records have established, and enforcement action against the TMI operator have revealed, that omission of information has occurred at TMI regarding data. The need for objective and independent data has therefore been established for quite some time.

Chairman Nunzio J. Palladino February 22, 1985 Page Two

It is critically important to the future of TMI and the future of existing and future nuclear power development in the United States that the question of short and long term health effects from TMI be accurately examined. The admission of partial core melting considerably adds to the scope of what possibilities may exist, we are advised, and there should be no reopening of either Unit at TMI until these basic questions are answered. Underlying this issue is the question of whether the NRC, established to both promote and regulate the nuclear power industry as a public agency, will perform its longterm mandate of ensuring public health and safety while providing for a new form of energy for the Nation.

We therefore believe no TMI Units should restart until health and safety issues are resolved, particularly in view of the latest damage confirmation.

We are available to discuss this if you wish and appreciate your consideration of this request and view.

Yours sincerely,

STEPHEN R. REED Mayor

SRR/ra

LO CARY APPROPRIATIONS VE"ERANS AFFAIRS

United States Senate

WASHINGTON, DC 20510

February 12, 1985

Chairman Nunzio J. Palladino Commissioner Thomas M. Roberts Commissioner James K. Asselstine Commissioner Fredrick M. Bernthal Commissioner Lando W. Zech, Jr. Nuclear Regulatory Commission 1717 H Street, N.W. Washington, D.C. 20555

Gentlemen:

New information has been brought to my attention that reinforces my conviction that serious public safety and management integrity issues have not been adequately addressed by the Nuclear Regulatory Commission, and that consideration of restarting TMI Unit 1 at this time would be inappropriate.

I am referring to the health study conducted by Norman and Marjorie Mamodt and concerns about GPU management that are raised by the Aamodt Motion for Reconsideration of Commission Order CLI-84-22, filed with the NRC on January 15, 1985. These matters were presented to my office by the Aamodts personally.

The health study concludes that there is a cancer death rate in three areas around the TMI plant that is over seven times the normal expected rate. According to the Motion for Reconsideration, this data has been verified by death certificates provided by the Pennsylvania State Health Department and other sources of population data.

I understand the Center for Disease Control has raised questions about the methodology of the Aamodt study. While this response may indicate the need for further study with better methodology, I do not see how it can justify completely ignoring the cancer risk issue.

In addition, the Aamodt Motion charges that licensee personnel lied when they told the Pennsylvania Bureau of Radiation Protection at the time of the accident that surveillance teams had been dispatched and had verified that a significant release had not occurred. The Motion cites the testimony of a former NRC investigator in support of this allegation.

As I have stated in prior letters, it is extremely troubling that serious issues relevant to restart remain unresolved six years after the accident at TMI. Expeditious resolution of these two particular issues is essential before the Commission decides whether to authorize restart.

Sincerely,

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Arlen Specter

CERTIFICATE OF SERVICE

The document MOTIONS TO ADDRESS FALSE STATEMENTS IN RESPONSES TO AAMODT MOTION OF JANUARY 15, 1985 and a letter, dated March 5, 1985 to the Commissioners were served on the Commissioners by my personal delivery of these materials to the Commission office at 1717 H Street, NW, Washington, D. C. Counsel for the Licensee was served by hand-delivery to their offices. All other parties were served by deposit in U.S. Mail, first class delivery, on March 6, 1985.

lariorle M. Aamodt

SERVICE LIST

Nunzio J. Palladino, Chairman U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Thomas M. Roberts, Commissioner U.S. Nuclear Regulatory Commission Washington, D. C. 20555

James K. Asselstine, Commissioner U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Frederick Bernthal, Commissioner U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Lando W. Zeck, Jrl., Commissioner U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Atomic Safety and Licensing Board U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Atomic Safety and Licensing Appeal Board U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Docketing and Service Section (3) Office of the Secretary U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Mary E. Wagner, Esq. U.S. Nuclear Regulatory Staff U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Ellyn R. Weiss, Esq. Harmon, Weiss & Jordan 2001 S Street, N.W.#430 Washington, D. C. 20009

Thomas y. Au, Esq. Office of Chief Counsel Department of Environmental Resources 505 Executive House P.O. Box 2357 Harrisburg, PA 17120

George F. Trowbridge, Esq. Shaw, Pittman, Potts & Trowbridge 1800 M Street NW Washington, D. C. 20036

Three Mile Island Alert 315 Maclav Street Harrisburg, PA

Tom Devine, Esq. Government Accountability Project 1555 Connecticut Avenue Washington, D. C. 20036